Example: Email sent to Operators in 2021 and 2023

From: CARB Methane Plume Detection Sent: Monday, June 26, 2023 3:47 PM

To: [redacted]

Subject: Methane Plume Detection; Follow-up Requested [INC-66]

Attachments: output_plumes_GAO20230614t193553p0000-B_I3a-ch4-mf-v0.tif

Dear [redacted],

This is a notification that a plume of methane has been detected by an aircraft at a piece of infrastructure belonging to your company. This detection was made on the date indicated below by a hyperspectral imager developed by NASA's Jet Propulsion Laboratory. This is not a citation or enforcement action, but rather, part of a research effort in preparation for future satellite capabilities that will detect methane plumes and produce this type of data continuously. Additional information about this research project is provided at the end of this email. We ask that you verify the source of the plume as requested below and notify us of your findings. At this <u>time</u> we are only notifying you, however, follow up inspections by regulating agencies to identify and/or confirm the facility is in compliance with relevant laws may be taken. As part of our research efforts, information about the plume may later be made public on a web portal (https://msf.carb.arb.ca.gov).

Plume ID	Candidate ID	Plume Latitude (deg)	Plume Longitude (deg)	Date	Time (Pacific)
117	GAO20230614t193553p0000-B_l3a-ch4- mf-v0	35.2805	-119.604	2023-06- 14	12:35:53

What are we asking you to do? We ask that you carefully inspect the attached imagery and verify that this piece of infrastructure belongs to you. If it does not belong to you but you know the owner, please let us know. If you are the owner of the infrastructure in question, we ask that you conduct measurements on the ground to verify that there is a methane leak at the indicated infrastructure. Note that the coordinates above are an approximate location of the leak and should not be treated as a precise location. If the leak can be fixed, please do so. Finally, please fill out the attached feedback form and return it to us within 1.2 weeks.

A number of resources are provided with this email. These include:

- Static plume images (.jpg files, embedded in the body of this email): These non-interactive images show the detected
 plume overlaid on a satellite map of the area, with multiple zoom levels. Note that the background image may not be
 up-to-date and may not reflect recent land use changes.
- GeoTiff (.tif file): Contains a georeferenced methane plume image captured by the airborne sensor. While not
 necessary, you may wish to import this file into a GIS platform of your choice, such as Google Earth or ArcGIS, to
 interactively view the plume image.
- A feedback form (.xlsx file): After inspecting your equipment and repairing the leak (if possible), we request that you
 fill out this form and send it back to us in a timely manner. If you are unable to open the Excel spreadsheet, please let
 us know and we can provide an alternate format.

Additional information about this research project:

CARB has used remote sensing technology to detect individual methane plumes coming from various industrial sectors in California, including oil and gas, waste management, and agriculture since 2016. CEC/NASA/CARB sponsored JPL to survey most of the state in several campaigns, during a study we refer to as the <u>California Methane Survey</u>, and found that a large number of plumes can be identified with this remote sensing technique. A <u>follow-up study</u> showed that nearly half of the leaks detected with this technology could be quickly repaired. Results from this project and previous project will be used in preparation for similar data obtained from satellites in the future.

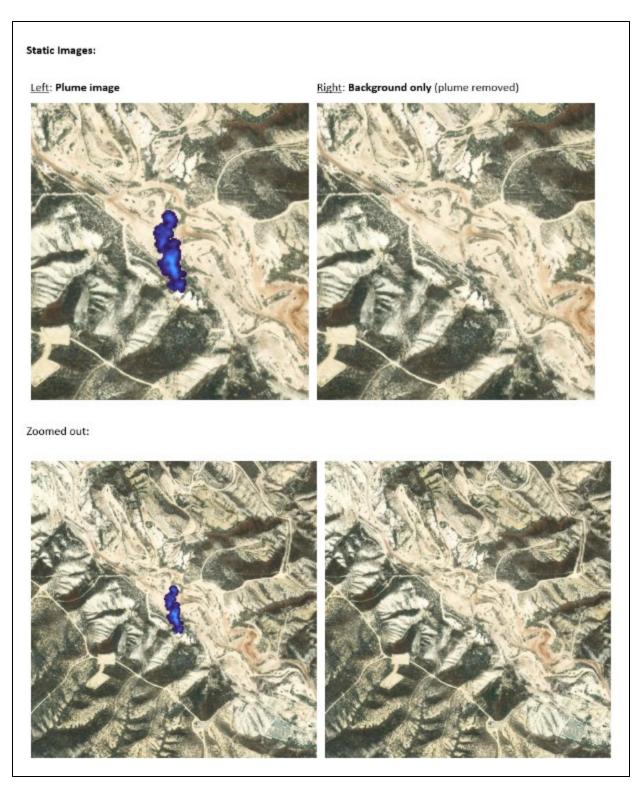


Figure A1. An example of the standard email sent to operators where plumes were detected.

Example: Operator Feedback Form sent in 2021

CARB Methane Satellite Dry Run - Industry Follow-up

Fill out this form for each notification from CARB of a plume identified from the plane. Complete all fields if possible. *Items in italics are optional but preferred*.

Note: For components subject to CARB's Oil and Gas Methane Regulation, leaks measured by the operator at or above 1,000 ppm using US EPA Method 21 must be repaired according to the timeframes in the regulation and must be reported to CARB as part of operators' annual LDAR reports. Per the regulation, all leaks detected with the use of an optical gas imaging (OGI) instrument must be measured using Method 21 within two calendar days of initial OGI leak detection.

Operator	
Contact information	
Plume ID (provided by CARB)	
Lat/Lon coordinates (provided by CARB)	
Date of on the ground follow-up	
Instrument used to locate the leak (e.g., OGI camera, Method 21 instrument)	
Was an emission source identified?	
What type of facility ² were the emissions coming from?	
What type of equipment ³ were the emissions coming from?	
What type of component ⁴ were the emissions coming from (if applicable)?	
Was the source of emissions a leak (unintentional) or a vent (intentional)?	
Instrument used to measure concentration of the leak (Method 21 type instrument)	
Concentration of the leak	ppm

¹ California Code of Regulations, Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article

^{4.} Subarticle 13: Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities.

² Examples of possible facility types: oil or gas production facility, gathering and boosting station, transmission compressor station, natural gas processing plant, natural gas storage facility.

³ Examples of possible equipment types: tank, pressure separator, sump, pond, reciprocating natural gas compressor, centrifugal natural gas compressor, continuous high bleed pneumatic device, continuous low bleed pneumatic device, intermittent bleed pneumatic device, pneumatic pump, open well casing vent.

⁴ Examples of possible component types: connector, valve, flange, open-ended line.

Mitigation actions taken (if it was a leak)	
Date of mitigation actions	
Additional Comments	
	2

Figure A2. The two-page operator feedback form sent to operators in 2021 for each leak detection.

Complete Incidence List from 2021

Table A1. List of all incidences that were sent to operators in 2021 (note: notification, inspection, and reply dates were not logged in 2020 and are not included here).

Incidence ID	Earliest Plume Measurement	Number of Plumes in Incidence	Sector	Incidence Emission Type	Incidence Notification Date	Incidence Inspection Date	Incidence Mitigation Date	Incidence Reply Date
1	11/5/2021	4	Oil & Gas	Туре В	11/16/2021	11/17/2021		11/29/2021

4	11/5/2021	1	Oil & Gas	Not Found	11/12/2021	11/16/2021		11/19/2021
5	11/5/2021	2	Oil & Gas	Туре А	11/8/2021	11/9/2021	11/9/2021	11/9/2021
6	11/5/2021	1	Oil & Gas	Туре А	11/12/2021	11/16/2021	11/18/2021	11/19/2021
8	11/5/2021	1	Oil & Gas	Туре А	11/8/2021	11/9/2021	11/15/2021	11/17/2021
9	11/5/2021	2	Oil & Gas	Туре А	11/8/2021	11/9/2021	11/9/2021	11/16/2021
10	11/5/2021	1	Oil & Gas	Туре А	11/10/2021	11/10/2021	11/10/2021	11/16/2021
11	11/5/2021	3	Oil & Gas	Туре А	11/12/2021	11/12/2021		12/17/2021
12	11/5/2021	3	Oil & Gas	Туре С	11/12/2021	11/10/2021		11/16/2021
13	11/5/2021	1	Oil & Gas	Туре А	11/10/2021	11/10/2021	11/10/2021	11/10/2021
14	11/5/2021	1	Oil & Gas	Туре А	11/10/2021	11/11/2021	11/16/2021	11/16/2021
15	11/6/2021	2	Oil & Gas	Туре А	11/8/2021	11/9/2021	11/10/2021	11/16/2021
16	11/7/2021	1	Landfills	Туре С	11/12/2021	12/1/2021	12/1/2021	12/1/2021
17	11/7/2021	1	Landfills	Туре В	11/12/2021			12/7/2021
18	11/7/2021	1	Landfills	Туре А	11/12/2021	11/12/2021	11/19/2021	6/16/2022
19	11/7/2021	1	Landfills	Туре С	11/12/2021			12/7/2021
22	11/8/2021	1	Oil & Gas	Туре А	11/12/2021	11/18/2021	11/25/2021	11/25/2021
23	11/8/2021	2	Oil & Gas	Туре С	11/12/2021	11/17/2021	11/18/2021	11/19/2021
24	11/8/2021	1	Oil & Gas	Туре А	11/12/2021	11/15/2021	12/8/2021	12/17/2021
25	11/8/2021	1	Oil & Gas	Not Found	11/12/2021	11/15/2021		11/17/2021
26	11/8/2021	1	Oil & Gas	Туре А	11/12/2021	11/12/2021	11/12/2021	11/19/2021
28	11/8/2021	1	Oil & Gas	Туре А	11/12/2021	11/15/2021	11/15/2021	11/15/2021
29	11/8/2021	1	Oil & Gas	Туре А	11/12/2021	11/15/2021	11/15/2021	11/19/2021
30	11/8/2021	1	Oil & Gas	Туре А	11/12/2021	11/15/2021	11/15/2021	11/19/2021
32	11/8/2021	1	Oil & Gas	Туре С	12/17/2021			12/23/2021

35	11/10/2021	2	Landfills	Did not Respond	11/16/2021			
36	11/10/2021	2	Landfills	Туре С	11/16/2021			12/7/2021
37	11/10/2021	1	Landfills	Туре А	11/16/2021	12/1/2021	12/1/2021	3/1/2022
38	11/10/2021	2	Landfills	Туре А	11/16/2021	11/22/2021	11/22/2021	3/1/2022
39	11/10/2021	3	Landfills	Туре А	11/16/2021	11/22/2021	11/22/2021	3/1/2022
40	11/10/2021	2	Landfills	Not Found	11/16/2021			7/1/2022
41	11/10/2021	2	Landfills	Туре В	11/16/2021	11/11/2021		7/1/2022
42	11/10/2021	1	Oil & Gas	Did not Respond	11/17/2021			
43	11/12/2021	2	Oil & Gas	Туре В	11/16/2021	12/2/2021		12/14/2021
44	11/12/2021	1	Oil & Gas	Туре В	11/16/2021	11/18/2021		12/2/2021
45	11/12/2021	1	Oil & Gas	Туре А	11/16/2021	11/16/2021	11/18/2021	12/2/2021
46	11/12/2021	1	Oil & Gas	Туре С	11/16/2021			12/3/2021
47	11/12/2021	2	Oil & Gas	Туре С	11/16/2021	11/12/2021		12/14/2021
48	11/12/2021	2	Oil & Gas	Туре С	11/16/2021	11/12/2021		12/14/2021
50	11/12/2021	1	Oil & Gas	Туре С	11/16/2021	11/17/2021		11/19/2021
69	11/12/2021	1	Oil & Gas	Туре А	11/16/2021	12/6/2021	12/6/2021	12/8/2021
70	11/12/2021	1	Oil & Gas	Not Found	11/16/2021	11/17/2021		12/6/2021
72	11/12/2021	1	Oil & Gas	Туре В	11/16/2021	11/17/2021		12/17/2021
73	11/12/2021	2	Oil & Gas	Туре В	11/16/2021			12/10/2021
74	11/12/2021	1	Oil & Gas	Not Found	11/16/2021	11/17/2021		11/19/2021
75	11/12/2021	2	Oil & Gas	Туре С	11/16/2021	11/18/2021	11/18/2021	11/19/2021
77	11/13/2021	1	Oil & Gas	Туре А	11/16/2021	11/17/2021	11/22/2021	11/30/2021

78	11/13/2021	1	Oil & Gas	Not Found	11/16/2021	11/17/2021		12/1/2021
80	11/13/2021	1	Oil & Gas	Туре С	11/16/2021	11/17/2021		11/24/2021
81	11/13/2021	1	Oil & Gas	Туре А	11/16/2021	11/17/2021	11/17/2021	11/24/2021
82	11/13/2021	1	Oil & Gas	Туре С	11/16/2021	11/17/2021		11/24/2021
83	11/11/2021	1	Landfills	Did not Respond	11/16/2021			
85	11/11/2021	1	Landfills	Туре А	11/16/2021	11/17/2021	11/18/2021	11/22/2021
87	11/11/2021	1	Landfills	Туре А	11/16/2021	11/22/2021	11/22/2021	3/1/2022
88	11/11/2021	1	Landfills	Туре А	11/16/2021	11/22/2021	11/22/2021	3/1/2022

Example: Operator Feedback From sent in 2023

CARB Methane Plume Detection - Oil & Gas Operator Follow-up Form Fill out this form for each notification from CARB of a plume identified from the plane. Complete all fields if possible. Facility/Flight Survey Info 1 Name of Facility: 2 Contact Name: 3 Phone Number: 4 Email Address: 5 Identifiers a. Incidence ID (provided by CARB): prefilled b. Plume ID(s) (provided by CARB): prefilled 6 Estimated lat/lon coordinates (provided by CARB): prefilled 7 Date(s) of plume observation (provided by CARB): prefilled Follow-up Ground Survey 8 Date of operator's follow-up ground survey: 9 Instrument used to locate the leak (.e.g, OGI Camera): 10 Was an emission source identified by follow-up monitoring? Please Select 11 Select on the right which of the following best matches the Please Select description of the emissions? Description: 12 Select on the right which of the following best describes the Please Select location of the emission source? Please provide a longer description: 13 What type of equipment is at the source of the emissions? Please Select Please provide a longer description. 14 What type of component is at the source of the emissions? Please Select Please provide a longer description. 15 Date of most recent performed monitoring: **Follow-up Actions** 16 Mitigation actions taken (if it was a leak): Repair date: Concentration of leak after repair (ppmv):

A3. The operator feedback form sent to Oil & Gas operators in 2023 for each leak detection.

CARB Methane Plume Detection - Landfill Operator Follow-up Form



Fill out this form for each notification from CARB of a plume identified from the plane. Complete all fields if possible. Facility/Flight Survey Info 1 Name of Facility: 2 Contact Name: 3 Phone Number: 4 Email Address: 5 Identifiers a. Incidence ID (provided by CARB): prefilled b. Plume IDs (provided by CARB): prefilled 6 Estimated lat/lon coordinates (provided by CARB): prefilled 7 Date(s) of plume observed (provided by CARB): prefilled Follow-up Ground Survey 8 Date of operator's follow-up ground survey: 9 Instrument used to locate the leak (.e.g, Fisher Scientific TVA2020): 10 Was an emission source identified by follow-up monitoring? Please Select 11 Select on the right which of the following best matches the Please Select description of the emissions? Description: 12 Select on the right which of the following best describes the Please Select location of the emission source? Please provide a longer description 13 Select and describe the most likely cause of the leak (can select multiple): Collection system downtime □ Damaged component ☐ Offline gas collection well Insufficient vacuum Construction - New well installation □ Wellbore seal (or other surface penetration) □ Construction – Other ☐ Maintenance/Repair Cover cracks □ Other Please provide a longer description. 14 Date(s) of most recent prior leak monitoring a. Date of last surface emissions monitoring: b. Date of last component leak monitoring 15 Was this location monitored in the previous quarterly/annual Please Select Landfill Methane Regulation (LMR) surface emissions or quarterly component leak monitoring? If not, please state why the area was excluded from monitoring (construction, active working face, steep slope, etc.). 16 Is this location planned for inclusion in the next quarterly/annual | Please Select LMR monitoring? Please state why the area will not be monitored (construction, active working face, steep slope, etc.) Follow-up Actions 17 Mitigation actions taken (if it was a leak) Repair date: Concentration of leak after repair (ppmv):

A4. The operator feedback form sent to landfills operators in 2023 for each leak detection.

Complete Incidence List from 2023

Table A2. List of all incidences that were sent to operators in 2023.

Incide nce ID	Earliest	Number of Plumes in Incidence	Sector	Incidence Emission Type	Incidence Notification Date	Incidence Inspection Date	Incidence Mitigation Date	Incidence Reply Date
3	6/12/2023	2	Oil & Gas	Туре А	6/15/2023	6/16/2023	6/20/2023	6/27/2023
4	6/12/2023	1	Oil & Gas	Туре А	6/15/2023	6/15/2023	6/20/2023	6/29/2023
5	6/12/2023	1	Oil & Gas	Туре А	6/15/2023	6/15/2023	6/16/2023	6/19/2023
6	6/12/2023	3	Oil & Gas	Not found	6/15/2023	6/15/2023		6/19/2023
7	6/12/2023	1	Oil & Gas	Туре А	6/15/2023	6/15/2023	6/15/2023	6/27/2023
8	6/12/2023	1	Oil & Gas	Туре С	6/15/2023	6/15/2023	6/15/2023	6/27/2023
9	6/12/2023	1	Oil & Gas	Туре В	6/15/2023	6/27/2023		6/28/2023
10	6/12/2023	4	Oil & Gas	Туре А	6/15/2023	6/16/2023	7/7/2023	7/17/2023
11	6/12/2023	2	Oil & Gas	Туре А	6/15/2023	6/15/2023	6/15/2023	6/27/2023
13	6/12/2023	10	Oil & Gas	Туре В	6/15/2023	6/22/2023		6/22/2023
16	6/12/2023	2	Oil & Gas	Туре С	6/15/2023	6/22/2023	6/12/2023	6/26/2023
18	6/12/2023	2	Oil & Gas	Туре А	6/15/2023	6/17/2023	6/17/2023	6/28/2023
20	6/12/2023	2	Oil & Gas	Туре С	6/15/2023	6/19/2023		6/27/2023
21	6/12/2023	5	Oil & Gas	Туре В	6/15/2023	6/20/2023		6/29/2023
22	6/12/2023	5	Landfills	Туре А	6/15/2023	6/16/2023		6/30/2023
23	6/12/2023	3	Oil & Gas	Туре В	6/15/2023	6/16/2023		6/19/2023
24	6/12/2023	1	Oil & Gas	Туре А	6/15/2023	6/19/2023	6/29/2023	6/29/2023
25	6/12/2023	1	Oil & Gas	Туре С	6/15/2023	6/19/2023	6/20/2023	6/27/2023
28	6/12/2023	2	Oil & Gas	Туре А	6/15/2023	6/15/2023	6/15/2023	6/27/2023
29	6/12/2023	1	Oil & Gas	Not found	6/15/2023	6/20/2023		6/26/2023
30	6/12/2023	3	Oil & Gas	Туре А	6/15/2023	6/21/2023	6/28/2023	6/29/2023

31	6/12/2023	1	Landfills	Not found	6/16/2023	6/19/2023		6/30/2023
32	6/12/2023	1	Oil & Gas	Not found	6/16/2023	6/16/2023		6/19/2023
33	6/13/2023	2	Landfills	Туре С	6/16/2023	6/27/2023	6/21/2023	8/31/2023
35	6/13/2023	1	Landfills	Туре А	6/16/2023	6/19/2023	7/26/2023	8/14/2023
36	6/13/2023	3	Landfills	Туре С	6/16/2023			9/15/2023
37	6/12/2023	6	Oil & Gas	Туре В	6/16/2023	6/20/2023		6/29/2023
38	6/12/2023	1	Oil & Gas	Туре В	6/16/2023	6/21/2023		6/27/2023
39	6/13/2023	7	Landfills	Туре С	6/16/2023	6/21/2023	5/20/2023	8/31/2023
40	6/13/2023	6	Landfills	Did not respond	9/5/2023			
42	6/12/2023	1	Oil & Gas	Not found	6/16/2023	6/16/2023		6/27/2023
43	6/13/2023	2	Landfills	Туре А	6/16/2023	6/22/2023	6/22/2023	7/14/2023
44	6/13/2023	2	Landfills	Туре С	6/16/2023			8/22/2023
46	6/13/2023	4	Landfills	Did not respond	6/16/2023			
47	6/13/2023	1	Landfills	Туре С	6/16/2023			9/21/2023
48	6/13/2023	3	Landfills	Туре С	6/16/2023	6/29/2023		7/9/2023
49	6/12/2023	2	Oil & Gas	Туре А	6/16/2023	6/21/2023	6/21/2023	6/28/2023
50	6/13/2023	3	Landfills	Туре С	6/16/2023	6/21/2023		6/26/2023
51	6/12/2023	2	Oil & Gas	Туре А	6/16/2023	6/20/2023	6/20/2023	6/29/2023
52	6/12/2023	1	Oil & Gas	Туре А	6/16/2023	6/19/2023	6/19/2023	6/27/2023
53	6/12/2023	2	Oil & Gas	Not found	6/16/2023	6/20/2023		6/29/2023
54	6/12/2023	1	Oil & Gas	Туре А	6/16/2023	6/20/2023	6/20/2023	6/29/2023
55	6/12/2023	2	Oil & Gas	Туре В	6/16/2023	6/16/2023		6/27/2023
56	6/12/2023	2	Oil & Gas	Туре А	6/16/2023	6/20/2023	6/20/2023	6/29/2023
57	6/12/2023	3	Oil & Gas	Not found	6/16/2023	6/17/2023		6/29/2023

58	6/13/2023	2	Landfills	Туре С	6/16/2023	6/19/2023		6/22/2023
59	6/14/2023	8	Landfills	Туре С	6/19/2023			6/30/2023
60	6/14/2023	1	Oil & Gas	Туре А	6/19/2023	6/20/2023	6/20/2023	7/13/2023
61	6/14/2023	1	Oil & Gas	Туре А	6/19/2023	6/19/2023	6/19/2023	6/27/2023
62	6/14/2023	1	Oil & Gas	Туре А	6/19/2023	6/20/2023		7/13/2023
63	6/14/2023	1	Oil & Gas	Туре В	6/19/2023	6/20/2023		7/13/2023
64	6/14/2023	2	Oil & Gas	Туре А	6/19/2023	6/21/2023	6/21/2023	7/13/2023
65	6/12/2023	3	Oil & Gas	Туре А	6/19/2023	6/23/2023	7/18/2023	7/13/2023
66	6/14/2023	1	Oil & Gas	Туре А	6/26/2023	6/27/2023		7/6/2023
67	6/14/2023	1	Oil & Gas	Not found	6/19/2023	6/23/2023		7/13/2023
69	6/14/2023	2	Oil & Gas	Туре В	6/19/2023	6/23/2023	6/23/2023	7/13/2023
70	6/14/2023	1	Oil & Gas	Not found	6/19/2023	6/20/2023		7/13/2023
71	6/14/2023	3	Oil & Gas	Not found	6/15/2023	6/23/2023		6/29/2023
72	6/14/2023	1	Oil & Gas	Туре А	6/19/2023	6/20/2023	6/20/2023	7/13/2023
73	6/14/2023	1	Oil & Gas	Туре С	6/19/2023	6/20/2023	6/20/2023	7/13/2023
74	6/15/2023	4	Landfills	Туре С	6/19/2023			7/9/2023
75	6/15/2023	2	Landfills	Туре С	6/19/2023	6/15/2023	10/25/2023	6/23/2023
76	6/14/2023	1	Oil & Gas	Туре С	6/19/2023	6/20/2023		7/13/2023
77	6/15/2023	3	Landfills	Туре А	6/19/2023	6/8/2023	7/27/2023	8/14/2023
78	6/14/2023	2	Oil & Gas	Not found	6/19/2023	6/20/2023		7/13/2023
79	6/14/2023	1	Oil & Gas	Not found	6/19/2023	6/20/2023		7/13/2023
80	6/15/2023	1	Landfills	Туре С	6/19/2023	6/21/2023	6/15/2023	8/31/2023
81	6/15/2023	4	Landfills	Туре А	6/19/2023	6/19/2023	7/26/2023	8/14/2023
84	6/15/2023	2	Landfills	Туре С	6/19/2023	6/28/2023	6/23/2023	7/9/2023

100	6/17/2023	1	Landfills	Туре А	6/21/2023	6/29/2023		8/30/2023
101	6/12/2023	3	Oil & Gas	Туре В	6/21/2023	6/22/2023		6/26/2023
102	6/17/2023	1	Landfills	Туре С	6/21/2023			7/17/2023
103	6/17/2023	3	Landfills	Туре А	6/21/2023	6/26/2023		7/6/2023
105	6/17/2023	6	Landfills	Туре А	6/21/2023	6/21/2023	6/27/2023	7/6/2023
106	6/17/2023	2	Landfills	Туре А	6/21/2023	6/22/2023	6/27/2023	7/6/2023
107	6/17/2023	1	Landfills	Туре А	6/21/2023	7/3/2023	7/13/2023	8/25/2023
108	6/17/2023	5	Landfills	Туре С	6/21/2023			8/21/2023
109	6/16/2023	3	Oil & Gas	Туре А	6/21/2023	6/26/2023	7/5/2023	7/5/2023
110	6/17/2023	1	Landfills	Not found	6/21/2023			8/22/2023
112	6/17/2023	2	Landfills	Did not respond	6/21/2023			
113	6/16/2023	3	Oil & Gas	Туре В	6/21/2023	6/22/2023		6/26/2023
114	6/16/2023	1	Oil & Gas	Did not respond	6/21/2023			
115	6/16/2023	4	Oil & Gas	Туре В	6/21/2023	6/22/2023		6/26/2023
117	6/16/2023	2	Oil & Gas	Туре В	6/21/2023	6/23/2023	7/23/2023	7/17/2023
121	6/17/2023	1	Landfills	Туре С	6/21/2023			7/6/2023
122	6/17/2023	3	Landfills	Туре С	6/22/2023	6/18/2023		8/9/2023
123	6/17/2023	3	Landfills	Туре А	6/22/2023	6/22/2023	6/23/2023	7/14/2023
124	6/18/2023	1	Landfills	Туре А	6/22/2023			7/31/2023
125	6/17/2023	4	Landfills	Туре А	6/22/2023	6/23/2023	7/21/2023	8/22/2023
126	6/17/2023	4	Landfills	Туре А	6/22/2023	6/23/2023	7/7/2023	8/22/2023
127	6/18/2023	2	Landfills	Туре С	6/22/2023	6/22/2023	6/22/2023	7/14/2023
128	6/18/2023	4	Landfills	Туре С	6/22/2023			9/21/2023
131	6/20/2023	2	Oil & Gas	Not found	6/23/2023	6/26/2023		7/13/2023

	ı	1	1	1				1
132	6/20/2023	4	Oil & Gas	Туре А	6/23/2023		6/28/2023	6/28/2023
133	6/20/2023	2	Oil & Gas	Туре С	6/23/2023	6/23/2023	6/20/2023	6/27/2023
134	6/20/2023	1	Oil & Gas	Туре В	7/31/2023	8/1/2023		8/8/2023
135	6/15/2023	3	Landfills	Туре С	6/23/2023			8/14/2023
136	6/20/2023	1	Oil & Gas	Туре В	6/23/2023	6/27/2023		7/3/2023
137	6/20/2023	2	Landfills	Did not respond	6/23/2023			
138	6/20/2023	1	Landfills	Туре А	6/23/2023	6/26/2023	7/6/2023	6/27/2023
140	6/17/2023	4	Landfills	Did not respond	6/26/2023			
141	6/17/2023	7	Landfills	Did not respond	6/26/2023			
142	6/21/2023	1	Landfills	Туре С	6/26/2023	6/29/2023	7/13/2023	8/30/2023
143	6/21/2023	2	Landfills	Туре С	6/26/2023	7/3/2023	7/13/2023	8/25/2023
144	6/21/2023	3	Landfills	Туре С	6/26/2023			7/31/2023
145	6/21/2023	1	Landfills	Туре А	6/26/2023	6/22/2023	6/23/2023	7/14/2023
146	6/21/2023	1	Landfills	Did not respond	6/26/2023			
148	6/21/2023	1	Landfills	Туре С	6/26/2023			8/21/2023
149	6/21/2023	3	Landfills	Туре С	6/26/2023	7/3/2023	7/13/2023	8/25/2023
153	6/25/2023	1	Landfills	Did not respond	6/28/2023			
154	6/25/2023	1	Landfills	Туре А	6/29/2023	6/29/2023	6/26/2023	7/14/2023
155	6/23/2023	1	Landfills	Did not respond	6/29/2023			
156	6/27/2023	1	Oil & Gas	Not found	6/30/2023	7/3/2023		7/13/2023
157	6/27/2023	1	Oil & Gas	Туре В	6/30/2023	7/7/2023		7/13/2023
158	6/14/2023	2	Oil & Gas	Туре В	6/30/2023	7/7/2023		7/13/2023

160	6/27/2023	1	Oil & Gas	Туре В	6/30/2023	7/7/2023		7/13/2023
161	6/27/2023	1	Oil & Gas	Туре А	6/30/2023	7/7/2023	7/7/2023	7/13/2023
162	6/27/2023	1	Oil & Gas	Туре В	6/30/2023	7/12/2023		7/13/2023
164	6/27/2023	1	Oil & Gas	Туре А	6/30/2023	6/30/2023	6/30/2023	7/10/2023
165	6/27/2023	1	Oil & Gas	Туре А	6/30/2023	6/30/2023	7/14/2023	7/17/2023
166	6/27/2023	1	Oil & Gas	Туре С	6/30/2023	6/30/2023		7/6/2023
171	6/28/2023	1	Oil & Gas	Туре С	7/3/2023	7/5/2023	6/28/2023	7/14/2023
172	6/16/2023	3	Oil & Gas	Туре А	7/3/2023	7/5/2023	7/21/2023	7/21/2023
173	6/28/2023	1	Oil & Gas	Not found	7/5/2023			7/5/2023
174	6/28/2023	1	Oil & Gas	Туре В	7/3/2023	7/6/2023		7/14/2023
175	6/28/2023	2	Oil & Gas	Туре С	7/3/2023	7/5/2023		7/14/2023
176	6/28/2023	1	Oil & Gas	Туре А	7/3/2023	7/5/2023	7/21/2023	7/21/2023
177	6/27/2023	1	Oil & Gas	Туре В	6/15/2023			7/6/2023